

CLAIMS

1. A polyolefin-base liquid transport film having on the surface thereof a plurality of fine grooves, wherein a hydrophilic monomer is grafted to the surface of the fine grooves by radiation graft polymerization to form a graft layer and the hydrophilic monomer is an
5 N,N-dialkylaminoalkyl (meth)acrylamide and/or a salt thereof.
2. The liquid transport film according to claim 1, wherein the hydrophilic monomer is N,N-dimethylaminopropylacrylamide.
- 10 3. The liquid transport film according to claim 1, wherein the thickness of the graft layer is from 0.01 to 5 μm .
4. The liquid transport film according to claim 1, wherein the polyolefin is polyethylene.
- 15 5. The liquid transport film according to claim 1, wherein the depth of the groove is from 5 to 3,000 μm .
6. The liquid transport film according to claim 1, wherein the groove have a first
20 groove and a second groove included in the first groove, the depth of the first groove is from 50 to 3,000 μm , and the depth of the second groove is from 5 to 50% of the depth of the second groove.